SEQUENCE LISTING

<110> Raines, Ronald T

<120> Oxidation-Resistant Ribonuclease Inhibitor

<130> 960296.95360

<140> 09/234,028

<141> 1999-01-20

<160> 7

<170> PatentIn Ver. 2.1

<210> 1

<211> 456

<212> PRT

<213> Rattus sp.

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Glu Leu Leu Pro Leu Ile Gln Gln Tyr Gln Val Val Arg Leu Asp Asp 20 25 30

Cys Gly Leu Thr Glu Val Arg Cys Lys Asp Ile Arg Ser Ala Ile Gln 35 40 45

Ala Asn Pro Ala Leu Thr Glu Leu Ser Leu Arg Thr Asn Glu Leu Gly
50 55 60

Asp Ala Gly Val Gly Leu Val Leu Gln Gly Leu Gln Asn Pro Thr Cys
65 70 75 80

Lys Ile Gln Lys Leu Ser Leu Gln Asn Cys Ser Leu Thr Glu Ala Gly 85 90 95

Cys Gly Val Leu Pro Asp Val Leu Arg Ser Leu Ser Thr Leu Arg Glu 100 105 110

Leu His Leu Asn Asp Asn Pro Leu Gly Asp Glu Gly Leu Lys Leu Leu 115 120 125

Cys Glu Gly Leu Arg Asp Pro Gln Cys Arg Leu Glu Lys Leu Gln Leu 130 135 140

145	TYE	Сув	ASII	Leu	150	АІа	Thr	ser	Cys	155	Pro	Leu	Ala	ser	160
Leu	Arg	Val	Lys	Pro 165	Asp	Phe	Lys	Glu	Leu 170	Val	Leu	Ser	Asn	Asn 175	Asp
Phe	His	Glu	Ala 180	Gly	Ile	His	Thr	Leu 185	Cys	Gln	Gly	Leu	Lys 190	Asp	Ser
Ala	Cys	Gln 195	Leu	Glu	Ser	Leu	Lys 200	Leu	Glu	Asn	Cys	Gly 205	Ile	Thr	Ser
Ala	Asn 210	Cys	Lys	Asp	Leu	Cys 215	Asp	Val	Val	Ala	Ser 220	Lys	Ala	Ser	Leu
Gln 225	Glu	Leu	Asp	Leu	Gly 230	Ser	Asn	Lys	Leu	Gly 235	Asn	Thr	Gly	Ile	Ala 240
Ala	Leu	Cys	Ser	Gly 245	Leu	Leu	Leu	Pro	Ser 250	Cys	Arg	Leu	Arg	Thr 255	Leu
Trp	Leu	Trp	Asp 260	Cys	Asp	Val	Thr	Ala 265	Glu	Gly	Cys	Lys	Asp 270	Leu	Cys
Arg	Val	Leu 275	Arg	Ala	Lys	Gln	Ser 280	Leu	Lys	Glu	Leu	Ser 285	Leu	Ala	Gly
Asn	Glu 290	Leu	Lys	Asp	Glu	Gly 295	Ala	Gln	Leu	Leu	Cys 300	Glu	Ser	Leu	Leu
Glu 305	Pro	Gly	Cys	Gln	Leu 310	Glu	Ser	Leu	Trp	Val 315	Lys	Thr	Cys	Ser	Leu 320
Thr	Ala	Ala	Ser	Cys 325	Pro	His	Phe	Cys	Ser 330	Val	Leu	Thr	Lys	Asn 335	Ser
Ser	Leu	Phe	Glu 340	Leu	Gln	Met	Ser	Ser 345	Asn	Pro	Leu	Gly	Asp 350	Ser	Gly
Val	Val	Glu 355	Leu	Cys	Lys	Ala	Leu 360	Gly	Tyr	Pro	Asp	Thr 365	Val	Leu	Arg
Val	Leu 370	Trp	Leu	Gly	Asp	Cys 375	Asp	Val	Thr	Asp	Ser 380	Gly	Cys	Ser	Ser
Leu 385	Ala	Thr	Val	Leu	Leu 390	Ala	Asn	Arg	Ser	Leu 395	Arg	Glu	Leu	Asp	Leu 400

Ser Asn Asn Cys Met Gly Asp Asn Gly Val Leu Gln Leu Leu Glu Ser 405 Leu Lys Gln Pro Ser Cys Ile Leu Gln Gln Leu Val Leu Tyr Asp Ile

Tyr Trp Thr Asp Glu Val Glu Asp Gln Leu Arg Ala Leu Glu Glu 435 440 445

Arg Pro Ser Leu Arg Ile Ile Ser 450 455

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<213> Sus sp.

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Cys Gly Leu Thr Glu Glu His Cys Lys Asp Ile Gly Ser Ala Leu Arg
35 40 45

Ala Asn Pro Ser Leu Thr Glu Leu Cys Leu Arg Thr Asn Glu Leu Gly 50 55 60

Asp Ala Gly Val His Leu Val Leu Gln Gly Leu Gln Ser Pro Thr Cys 65 70 75 80

Lys Ile Gln Lys Leu Ser Leu Gln Asn Cys Ser Leu Thr Glu Ala Gly
85 90 95

Cys Gly Val Leu Pro Ser Thr Leu Arg Ser Leu Pro Thr Leu Arg Glu
100 105 110

Leu His Leu Ser Asp Asn Pro Leu Gly Asp Ala Gly Leu Arg Leu Leu 115 120 125

Cys Glu Gly Leu Leu Asp Pro Gln Cys His Leu Glu Lys Leu Gln Leu 130 135 140

Leu	Arg	Ala	Thr	Arg 165	Ala	Leu	Lys	Glu	Leu 170	Thr	Val	Ser	Asn	Asn 175	Asp
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Ala	Cys	Gln 195	Leu	Glu	Thr	Leu	Arg 200	Leu	Glu	Asn	Суз	Gly 205	Leu	Thr	Pro
Ala	Asn 210	Cys	Lys	Asp	Leu	Cys 215	Gly	Ile	Val	Ala	Ser 220	Gln	Ala	Ser	Leu
Arg 225	Glu	Leu	Asp	Leu	Gly 230	Ser	Asn	Gly	Leu	Gly 235	Asp	Ala	Gly	Ile	Ala 240
Glu	Leu	Cys	Pro	Gly 245	Leu	Leu	Ser	Pro	Ala 250	Ser	Arg	Leu	Lys	Thr 255	Leu
Trp	Leu	Trp	Glu 260	Cys	Asp	Ile	Thr	Ala 265	Ser	Gly	Cys	Arg	Asp 270	Leu	Cys
Arg	Val	Leu 275	Gln	Ala	Lys	Glu	Thr 280	Leu	Lys	Glu	Leu	Ser 285	Leu	Ala	Gly
Asn	Lys 290	Leu	Gly	Asp	Glu	Gly 295	Ala	Arg	Leu	Leu	Cys 300	Glu	Ser	Leu	Leu
Gln 305	Pro	Gly	Cys	Gln	Leu 310	Glu	Ser	Leu	Trp	Val 315	Lys	Ser	Cys	Ser	Leu 320
Thr	Ala	Ala	Cys	Cys 325	Gln	His	Val	Ser	Leu 330	Met	Leu	Thr	Gln	Asn 335	Lys
His	Leu	Leu	Glu 340	Leu	Gln	Leu	Ser	Ser 345	Asn	Lys	Leu	Gly	Asp 350	Ser	Gly
Ile	Gln	Glu 355	Leu	Cys	Gln	Ala	Leu 360	Ser	Gln	Pro	Gly	Thr 365	Thr	Leu	Arg
Val	Leu 370	Cys	Leu	Gly	Asp	Cys 375	Glu	Val	Thr	Asn	Ser 380	Gly	Cys	Ser	Ser
Leu 385	Ala	Ser	Leu	Leu	Leu 390	Ala	Asn	Arg	Ser	Leu 395	Arg	Glu	Leu	Asp	Leu 400
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Lys Pro Gly Leu Arg Val Ile Ser 450 455

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<212> PRT

<213> Homo sapiens

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Val Arg Leu Asp Asp Cys Gly Leu Thr Glu Ala Arg Cys Lys Asp Ile 35 40 45

Ser Ser Ala Leu Arg Val Asn Pro Ala Leu Ala Glu Leu Asn Leu Arg 50 55 60

Ser Asn Glu Leu Gly Asp Val Gly Val His Cys Val Leu Gln Gly Leu 65 70 75 80

Gln Thr Pro Ser Cys Lys Ile Gln Lys Leu Ser Leu Gln Asn Cys Cys
85 90 95

Leu Thr Gly Ala Gly Cys Gly Val Leu Ser Ser Thr Leu Arg Thr Leu 100 105 110

Pro Thr Leu Gln Glu Leu His Leu Ser Asp Asn Leu Leu Gly Asp Ala 115 120 125

Gly Leu Gln Leu Leu Cys Glu Gly Leu Leu Asp Pro Gln Cys Arg Leu 130 135 140

Pro Leu Ala Ser Val Leu Arg Ala Lys Pro Asp Phe Lys Glu Leu Thr

165	170	
		175

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Cys	Gly 210	Val	Thr	Ser	Asp	Asn 215	Cys	Arg	Asp	Leu	Cys 220	Gly	Ile	Val	Ala
Ser 225	Lys	Ala	Ser	Leu	Arg 230	Glu	Leu	Ala	Leu	Gly 235	Ser	Asn	Lys	Leu	Gly 240
Asp	Val	Gly	Met	Ala 245	Glu	Leu	Cys	Pro	Gly 250	Leu	Leu	His	Pro	Ser 255	Ser
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Cys	Gly	Asp 275	Leu	Cys	Arg	Val	Leu 280	Arg	Ala	Lys	Glu	Ser 285	Leu	Lys	Glu
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Lys	Ser	Cys	Ser	Phe 325	Thr	Ala	Ala	Cys	Cys 330	Ser	His	Phe	Ser	Ser 335	Val
Leu	Ala	Gln	Asn 340	Arg	Phe	Leu	Leu	Glu 345	Leu	Gln	Ile	Ser	Asn 350	Asn	Arg
Leu	Glu	Asp 355	Ala	Gly	Val	Arg	Glu 360	Leu	Cys	Gln	Gly	Leu 365	Gly	Gln	Pro
Gly	Ser 370	Val	Leu	Arg	Val	Leu 375	Trp	Leu	Ala	Asp	Cys 380	Asp	Val	Ser	Asp
Ser 385	Ser	Cys	Ser	Ser	Leu 390	Ala	Ala	Thr	Leu	Leu 395	Ala	Asn	His	Ser	Leu 400
Arg	Glu	Leu	Asp	Leu 405	Ser	Asn	Asn	Cys	Leu 410	Gly	Asp	Ala	Gly	Ile 415	Leu

Gln Leu Val Glu Ser Val Arg Gln Pro Gly Cys Leu Leu Glu Gln Leu

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Val Leu Tyr Asp Ile Tyr Trp Ser Glu Glu Met Glu Asp Arg Leu Gln
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Ala Leu Glu Lys Asp Lys Pro Ser Leu Arg Val Ile Ser 450 455 460

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<212> DNA

<213> Artificial Sequence

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<212> DNA

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: mutation sequence

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